

Patent Abstracts of Japan

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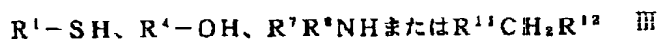
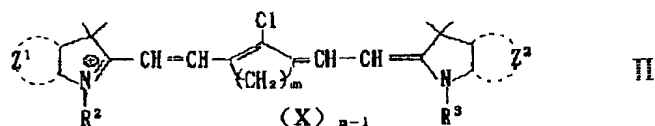
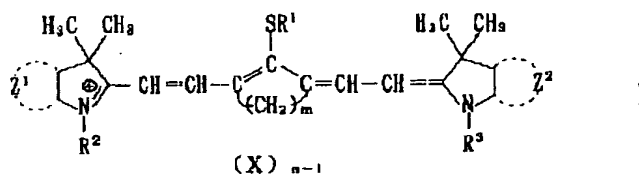
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APPLICANT : FUJI PHOTO FILM CO LTD;

INVENTOR : HARADA TORU;

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TITLE : CYANINE COMPOUND



ABSTRACT : PURPOSE: To obtain the title compound having a reduced deleterious effect and is useful as a dye, a photographic dye, a dye for filtering, a recording compound of an optical information recording medium, a dye for staining a biological sample, a medicine or the like by forming a cyanine compound having a substituent in the methine chain of an indolenine cyanine dye.

CONSTITUTION: A cyanine compound of formula I wherein Z_1 and Z_2 are each a group of nonmetallic atoms necessary for forming the benzo fused ring or the naphtho fused ring substituted with an acidic substituent; R^1 is alkyl or aryl; R^2 and R^3 are each alkyl substituted with an acidic substituent; m is 2 or 3; X is an anion; n is 1 or 2; and n is 1 when the dye forms an inner salt is provided. This compound is obtained by reacting a compound of formula I with a compound of formula II at 0-100°C in the presence of water or an organic solvent.

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